

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
29 July 2004 (29.07.2004)

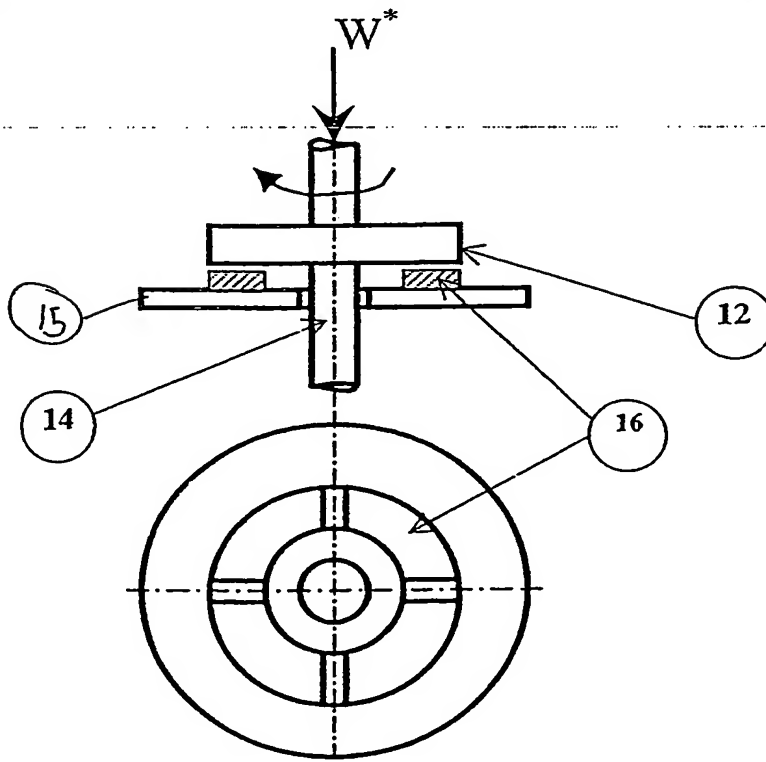
PCT

(10) International Publication Number  
WO 2004/063533 A2

- (51) International Patent Classification<sup>7</sup>: F01D (74) Agent: FRIEDMAN, Mark M.; 7 Haomanim Street, 67897 Tel Aviv (IL).
- (21) International Application Number: PCT/IL2004/000021 (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (22) International Filing Date: 11 January 2004 (11.01.2004) (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 60/438,792 9 January 2003 (09.01.2003) US
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(54) Title: LASER SURFACE TEXTURED FLUID-FILM BEARING



(57) Abstract: A fluid-film bearing including: (a) a first surface region having a first bearing surface, for attaching to a first machine component; (b) a second surface region having a second bearing surface, for attaching to a second machine component; the surface regions designed and configured such that first surface and the second surface are disposed opposite one another, the surface regions further designed and configured such that the first surface and the second surface move in a relative motion with respect to one another, and (c) a fluid disposed between the surfaces, wherein at least one of the surfaces is a micropore-containing surface having a plurality of micropores disposed so as to effect an equivalent clearance convergence between the surfaces, in a direction of the relative motion, such that the relative motion, acting on the fluid, generates a pressure so as to generate a lifting force between the surfaces.

10/541754  
Rec'd PCT TO 08 .IIII 2005

WO 2004/063533 A2



**Published:**

— without international search report and to be republished  
upon receipt of that report

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